

**FEATURES**

- Schottky Barrier Chip
- Guardring For Overvoltage Protection
- Low Power loss, High Efficiency
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-0

**MECHANICAL DATA**

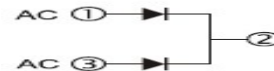
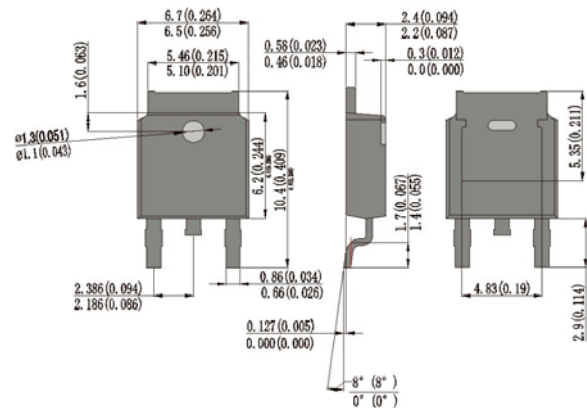
- Case: TO-252/D PAK Type, Molded Plastic
- Terminals: Pure tin Plated, Lead free Solderable per MIL-STD-750, Method 2026
- Polarity: As marked
- Weight: 0.65 grams(approx)
- Mounting Position: Any

**TYPICAL APPLICATIONS**

- For use in low voltage, high frequency inverters mode power supplies, freewheeling diode, and polarity protection application

**TO-252 / D PAK**

unit:mm



**Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified**

Single Phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

Characteristic	Symbol	SR 2040CT	SR 2045CT	SR 2050CT	SR 2060CT	SR 2080CT	SR 2090CT	SR 20100CT	SR 20150CT	SR 20200CT	Unit	
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	40	45	50	60	80	90	100	150	200	V	
Maximum RMS Voltage	V <sub>RMS</sub>	28	31.5	35	42	56	63	70	105	140	V	
Maximum DC Blocking Voltage	V <sub>DC</sub>	40	45	50	60	80	90	100	150	200	V	
Maximum Average Forward (See Figure 1)	I <sub>F(AV)</sub>	20									A	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I <sub>FSM</sub>	150									A	
Maximum Forward Voltage at 10A per leg	V <sub>F</sub>	0.70		0.75		0.85			0.92		V	
Maximum DC Reverse Current at T <sub>J</sub> =25°C Rated DC Blocking Voltage T <sub>J</sub> =125°C	I <sub>R</sub>	0.15				0.1				7.5		mA
Typical Thermal Resistance, Junction to Case	R <sub>θJC</sub>	5									°C/W	
Operating Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150									°C	

**Note:** (1) Mounted on 14mm X 14mm pad areas, 1oz.FR4 P.C.B  
(2) Free air, mounted on recommended copper pad area

(3). Pulse test: 300us pulse width, 1% duty cycle  
(4). Pulse test: Pulse width ≦ 40ms



RATING AND CHARACTERISTIC CUEVES

